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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/039,059	12/31/2001	Ton Logtenberg	313632000801	9790
25225	7590	05/18/2004	EXAMINER	
LEFFERS JR, GERALD G				
ART UNIT		PAPER NUMBER		
1636				

DATE MAILED: 05/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/039,059	LOGTENBERG ET AL.
	Examiner	Art Unit
	Gerald G Leffers Jr., PhD	1636

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 01 March 2004.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-23 is/are pending in the application.  
 4a) Of the above claim(s) 17-21 is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-16,22 and 23 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. 09/418,563.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | Paper No(s)/Mail Date. _____ .  |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>1/6/2002</u> . | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|   | 6) <input type="checkbox"/> Other: _____ .                                  |

**DETAILED ACTION**

***Election/Restrictions***

Applicant's election without traverse of Group I (claims 1-16 and 22-23) in the paper filed 3/1/2004 is acknowledged. Claims 17-18, 19-21 are withdrawn from consideration as being directed to nonelected inventions.

***Priority***

It is noted that the transmittal papers submitted 12/31/2001 indicate that the instant application is a continuation of U.S. Application Serial No. 09/069,534, filed 4/30/1998. It appears that this indication of a claim for priority to the '534 application is inadvertent as there is insufficient support in the '534 application for the invention recited in the elected claims. Moreover, the claim for priority was not made in the first sentence of the specification or in an application data sheet. Therefore, priority is only granted under 35 U.S.C. 120 to U.S. Patent Serial No. 09/418,563, now U.S. Patent No. 6,440,736 and filed 10/15/1999.

***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-16 and 22-23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Each of the claims recites the term “derived from” in the context of cell membranes and portions of first and second proteins. The term “derived from” implies an indirect process, making it unclear the nature and number of steps required in order to obtain a “derivative” of a protein and/or membrane. It would be remedial to replace the term “derived from” with the term “obtained from”, which implies a more direct process for obtaining the desired products.

Claim 22 is vague and indefinite in that meets and bounds of the term “obtainable from” are unclear. It is unclear the nature of the conditions and steps under which the desired cell or particle are “obtainable” from the process of claim 1. Further, it is unclear as the claim is written whether one must actually practice the steps of claim 1, or whether the cited phrase merely means that the product can be obtained from the process of claim 1 and can actually be produced by some other, undefined process.

### ***Double Patenting***

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-16, 22 and 23 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-21 of U.S. Patent No. 6,440,736. Although the conflicting claims are not identical, they are not patentably distinct from each other because the processes recited in the issued claims of the '736 patent are specific embodiments of the more broadly claimed methods recited in the instant claims. Therefore, the claims of the '736 patent anticipate and make obvious the instant claims. Both sets of claims are directed to providing a cell or cellular membrane comprising an additional proteinaceous molecule where the proteinaceous molecule is a modified lipoprotein comprising a portion of a first polypeptide operatively linked to a lipidation signal of a portion of a second polypeptide. The issued claims are more explicitly directed to embodiments where the presence of the modified lipoprotein of alters the characteristics of the cell and/or membrane in which it has been introduced.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 4-5, 7-9, 11-12, 14-16, 22-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Tykocinski et al (WO 96/12009 A2; see the entire reference).

The Tykocinski et al application teaches methods for engineering antigen presenting cells by altering the cells to include a modified MHC protein whose antigen-binding characteristics are defined (e.g. Abstract). Specifically, the application teaches embodiments where glycosyl-

phosphatidylinositol (GPI) modification of the desired MHC protein is achieved through the operative linkage of a GPI-signaling motif is operatively linked to the amino acid sequence of the MHC by recombinant means (e.g. page 4, lines 34-36; pages 5-6, bridging paragraph; page 8, lines 25-32; page 14, lines 3-16 and lines 28-31; page 15, lines 15-19; Example 1, pages 30-33). Therefore, Tykocinski et al teach a process for providing a cell or cell membrane with an additional proteinaceous molecule, the process comprising contacting the cell or membrane with a lipid-modified proteinaceous molecule, where the lipid-modified proteinaceous molecule comprises at least one protein moiety derived from a first protein and at least one lipidation signal derived from a second protein.

*Conclusion*

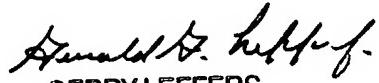
No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gerald G Leffers Jr., PhD whose telephone number is (571) 272-0772. The examiner can normally be reached on 9:30am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Remy Yucel can be reached on (571) 272-0781. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gerald G Leffers Jr., PhD  
Primary Examiner  
Art Unit 1636

  
GERRY LEFFERS  
PRIMARY EXAMINER